IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method comprising:

passing data through a reconfigurable partial response encoder to create a spectral notch at a frequency other than DC; and

transmitting data output from the reconfigurable partial response encoder at baseband, the data output from the reconfigurable partial response encoder exhibiting the spectral notch; and modifying a clock frequency of the reconfigurable partial response encoder to tune the spectral notch.

modifying a characteristic of the reconfigurable partial response encoder to change a frequency characteristic of the spectral notch.

- 2. (Original) The method of claim 1 further comprising pre-coding the data prior to passing through the reconfigurable partial response encoder.
- 3. (Original) The method of claim 2 further comprising passing the data through a spectral whitening encoder.
- 4. (Canceled)
- 5. (Currently Amended) A method comprising:

baseband data transmitted by the digital data port.

detecting errors in a data stream received over a wireless link; and modifying characteristics of a partial response encoder in a digital data port to reduce the errors, wherein modifying characteristics comprises modifying a clock frequency at which the partial response encoder operates to modify a spectral location of a spectral notch exhibited by

6-8. (Canceled)

9. (Currently Amended) An apparatus comprising:

a digital data port to transmit baseband digital data, the digital data port having a reconfigurable partial response encoder to encode the baseband digital data such that when transmitted, the baseband digital data exhibits and create a spectral notch in the region of a wireless frequency band;

a wireless interface that operates in the wireless frequency band; and
a circuit to modify a clock frequency of the reconfigurable partial response encoder to
move the spectral notch in frequency relative to the wireless frequency band.

- 10. (Original) The apparatus of claim 9 wherein the spectral notch is between about 800 MHz and about 900 MHz.
- 11. (Currently Amended) The apparatus of claim 9 wherein the digital data port further emprising comprises a low pass filter to reduce spectral energy in wireless frequency bands above the spectral notch.
- 12. (Original) The apparatus of claim 9 wherein the reconfigurable partial response encoder implements 1-D⁴.
- 13. (Original) The apparatus of claim 12 wherein the reconfigurable partial response encoder operates at a clock frequency of approximately 3.4 GHz.
- 14. (Original) The apparatus of claim 9 wherein the reconfigurable partial response encoder implements $1-D^2$.
- 15. (Original) The apparatus of claim 9 wherein the reconfigurable partial response encoder implements 1+D.
- 16. (Original) The apparatus of claim 9 wherein the wireless frequency band corresponds to global positioning system (GPS) signals.

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17. (Original) The apparatus of claim 9 wherein the wireless frequency band corresponds to cellular phone signals.

- 18. (Original) The apparatus of claim 9 wherein the wireless frequency band corresponds to wireless local area network (WLAN) signals.
- 19. (Currently Amended) An apparatus comprising:
 - a wireless interface circuit; and
- a digital interface circuit that includes a partial response encoder to create a spectral notch at a non-zero frequency in transmitted baseband digital data; and

an adaptive circuit to measure errors in data received by the wireless interface circuit and to modify a clock frequency of the partial response encoder to tune the spectral notch.

- 20. (Original) The apparatus of claim 19 wherein the spectral notch is near in frequency to a frequency of operation of the wireless interface circuit.
- 21. (Original) The apparatus of claim 19 wherein the partial response encoder implements $1 D^4$.
- 22. (Original) The apparatus of claim 19 wherein the digital interface circuit further comprises a pre-coder to obviate a need for memory in a receiver.
- 23. (Original) The apparatus of claim 19 wherein the wireless interface circuit comprises a global positioning system (GPS) receiver.
- 24. (Original) The apparatus of claim 19 wherein the wireless interface circuit comprises a cellular phone interface.

25. (Original) The apparatus of claim 19 wherein the wireless interface circuit comprises a wireless local area network interface.

26. (Currently Amended) An electronic system comprising:

a first integrated circuit including a wireless interface circuit and a digital data port to transmit baseband digital data, the digital data port including with a partial response encoder to mitigate interference to the wireless interface circuit, wherein the partial response encoder encodes the baseband digital data such that when transmitted, the baseband digital data exhibits a spectral notch at a non-zero frequency, the first integrated circuit comprising an adaptive circuit to measure errors in data received by the wireless interface circuit and to modify a clock frequency of the partial response encoder to tune the spectral notch;

a second integrated circuit in digital communication with the digital data port of the first integrated circuit; and

an omni-directional antenna coupled to the wireless interface circuit of the first integrated circuit.

- 27. (Original) The electronic system of claim 26 wherein the wireless interface circuit comprises an apparatus to operate between about 800 MHz and about 900 MHz.
- 28. (Original) The electronic system of claim 26 wherein the wireless interface circuit comprises an apparatus to operate between about 2.4 GHz and about 2.5 GHz.
- 29. (Original) The electronic system of claim 26 wherein the partial response encoder includes a filter to implement 1-D⁴.
- 30. (Canceled)